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IN THE CLAIMS:

- 1. (Currently Amended) A vaso-occlusive composition comprising a vaso-occlusive coil; and a bioactive material comprising a combination of two or more materials selected from the group consisting of (1) fibrin; (2) polyethylene glycol derivatives; (3) thrombin-coated gelatin granules; (4) balloons coated with iron microspheres; (5) trace metals, and (6) thrombus-stabilizing molecules; and combinations thereof, wherein combinations of bioactive materials are not contained in separate layers.
- 2 4. (Previously Cancelled)
- 5. (Withdrawn) The composition of claim 1, wherein the material comprises a trace metal.
- 6. (Withdrawn) The composition of claim 5, wherein the trace metal comprises copper.
- 7. (Currently Amended) The composition of claim 1, wherein one of the materials of the bioactive material comprises a thrombus-stabilizing molecule.
- (Original) The composition of claim 7, wherein the thrombus-stabilizing molecule is Factor XIII or functional fragments thereof.
- 9. (Original) The composition of claim 7, wherein the thrombus-stabilizing molecule is plasminogen activator inhibitor-1 (PAI-1) or functional fragments thereof.
- 10. (Original) The composition of claim 7, wherein the thrombus-stabilizing molecule is α_2 -antiplasmin or functional fragments thereof.
- 11. (Previously Presented) The composition of claim 1, wherein the material is adsorbed to the vaso-occlusive coil.

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- 12 13. (Previously Cancelled)
- 14. (Previously Presented) The composition of claim 1, wherein the vaso-occlusive coil is plasma treated.
- 15. (Previously Presented) The composition of claim 1, wherein the vaso-occlusive coil is subjected to join implantation.
- 16. (Previously Presented) The composition of claim 1, wherein the vaso-occlusive coil is microtextured
- 17 18. (Previously Cancelled)
- 19. (Original) A method of occluding a vessel comprising administering to a subject in need thereof a vaso-occlusive composition according to claim 1.
- 20 21. (Previously Cancelled)
- 22. (Withdrawn) The method of claim 19, wherein the trace metal is copper.
- 23. (Original) The method of claim 19, wherein the thrombus-stabilizing molecule is selected from the group consisting of Factor XIII, α -antiplasmin, plasminogen activator inhibitor-1 (PAI-1), combinations thereof and functional fragments thereof.
- 24. (Original) The method of claim 19, wherein the vessel is an aneurysm.
- 25 30. (Previously Cancelled)

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- 31. (Withdrawn) A vaso-occlusive composition comprising a vaso-occlusive coil, a liquid embolic material and an additional bioactive material selected from the group consisting of DNA; RNA; functional fragments of DNA, RNA, or cytokines; and combinations thereof, wherein at least one of the bioactive materials is attached to the vaso-occlusive coil.
- 32. (Withdrawn) The vaso-occlusive composition of claim 31, wherein the liquid embolic material is particulate material selected from the group consisting of microspheres, granulates and beads.
- 33. (Previously canceled).
- 34. (Withdrawn): The vaso-occlusive composition of claim 31, wherein the vaso-occlusive coil is absorbable
- 35. (Withdrawn): The vaso-occlusive composition of claim 32, wherein the particulate material is absorbable
- 36. (Withdrawn): A method of occluding a vessel comprising administering to a subject in need thereof a vaso-occlusive composition according to claim 31.
- 37. (Withdrawn): A vaso-occlusive composition comprising
- a vaso-occlusive member selected from the group consisting of one or more vasoocclusive coils, one or more filters, one or more retention devices and combinations thereof; and thrombin-coated gelatin granules or balloons coated with iron microspheres.